

Mapping Earth's Surface ▪ Performance Assessment**Reading a Map****Problem**

How can you determine the location of cities on a map, and how can you find the distance between these cities?

Materials

U.S. map with latitude and longitude lines

metric ruler

Devise a Plan

1. Study the materials and think of a way you can use them to identify the location on the map of these four cities: **a.** Los Angeles, **b.** Indianapolis, **c.** Boston, and **d.** Atlanta.
2. Think of a way to find distances between cities. Then find these four distances: **a.** Los Angeles to Indianapolis, **b.** Indianapolis to Boston, **c.** Boston to Atlanta, and **d.** Atlanta to Los Angeles.

Analyze and Conclude

On a separate sheet of paper, respond to the items that follow.

1. What are the latitude and longitude locations of the four cities?
2. Which hemispheres are these cities in? Explain how you know.
3. What is the scale on this map, and what does the scale tell you?
4. What are the four distances between the cities?
5. Are the lines of latitude and longitude on this map all straight, or are some of them curved? Which type of map projection—Mercator or equal-area—does the map projection used for this map resemble?
6. Could contour lines be used to show topography on a map of this scale? Explain why or why not.